

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091819\
 Data File : VX012463.D
 Acq On : 18 Sep 2019 11:08
 Operator : JC/SP
 Sample : VX0918WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0918WBL01

Quant Time: Sep 19 05:59:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 17 15:27:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	200290	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	320187	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	273240	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	117557	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	134991	47.03	ug/l	0.00
Spiked Amount			Recovery	=	94.06%	
35) Dibromofluoromethane	5.48	113	95947	49.51	ug/l	0.00
Spiked Amount			Recovery	=	99.02%	
50) Toluene-d8	8.71	98	368341	51.35	ug/l	0.00
Spiked Amount			Recovery	=	102.70%	
62) 4-Bromofluorobenzene	11.13	95	135671	45.55	ug/l	0.00
Spiked Amount			Recovery	=	91.10%	

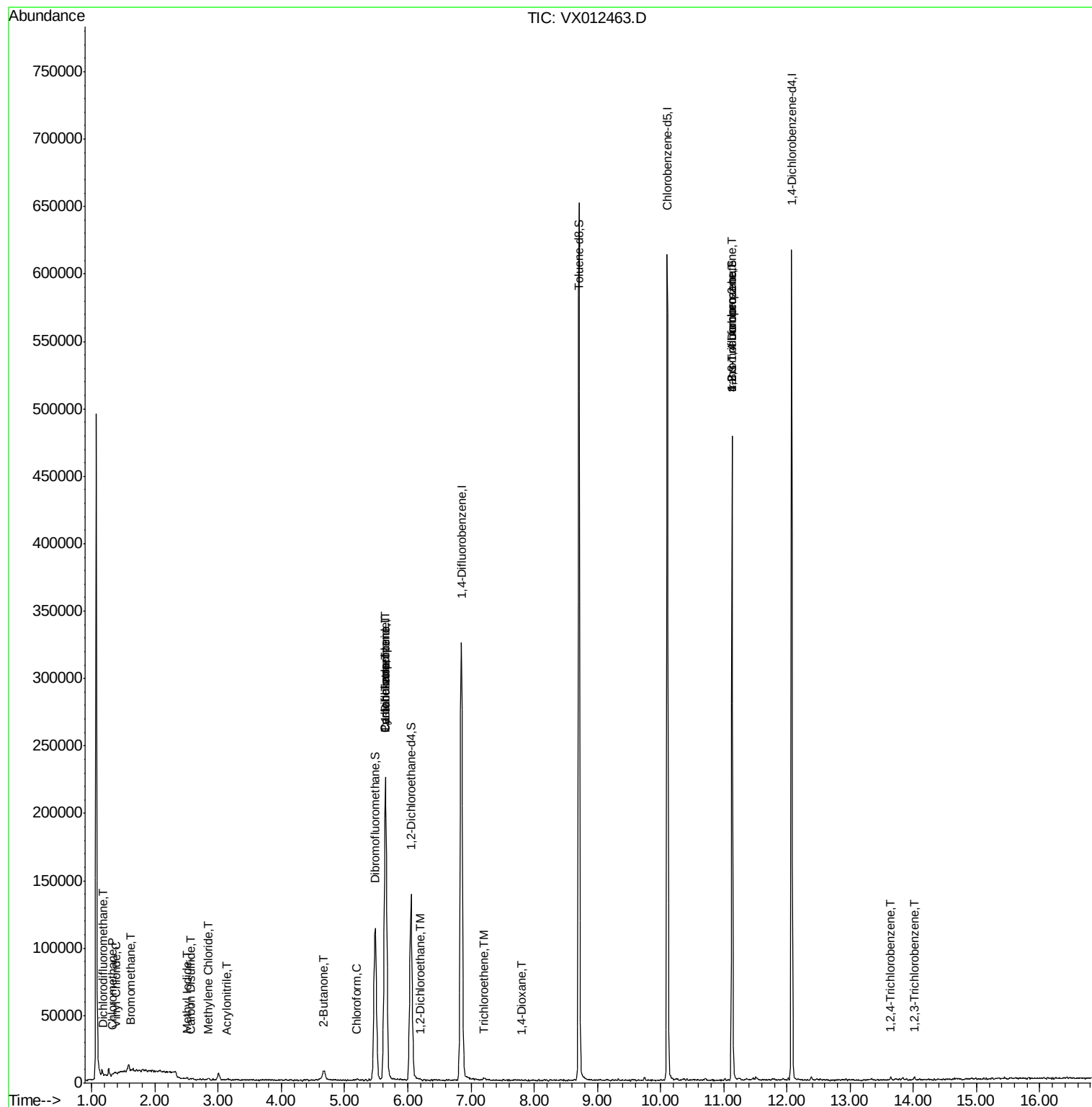
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	23	0.408	ug/l #	43
3) Chloromethane	1.32	50	328	0.298	ug/l #	51
4) Vinyl Chloride	1.39	62	256	0.215	ug/l #	75
5) Bromomethane	1.62	94	154	0.329	ug/l #	24
10) Methyl Iodide	2.50	142	612	4.854	ug/l #	89
11) Tert butyl alcohol	3.00	59	2850	Below Cal	#	84
13) Acrolein	2.29	56	312	Below Cal	#	46
15) Acrylonitrile	3.13	53	279	0.224	ug/l #	27
16) Acetone	2.42	43	559	Below Cal		91
17) Carbon Disulfide	2.56	76	565	2.112	ug/l #	75
20) Methylene Chloride	2.84	84	435	0.250	ug/l #	82
25) 2-Butanone	4.66	43	495	0.249	ug/l #	51
30) Chloroform	5.19	83	809	0.214	ug/l	84
31) Cyclohexane	5.64	56	4885	2.464	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	17078	8.776	ug/l #	53
38) Carbon Tetrachloride	5.65	117	22292	9.211	ug/l #	16
42) 1,2-Dichloroethane	6.19	62	640	0.223	ug/l #	75
44) Trichloroethene	7.20	130	679	0.417	ug/l	56
49) 1,4-Dioxane	7.79	88	23	0.374	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	71537	26.492	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	71537	71.322	ug/l #	8
93) 1,2,4-Trichlorobenzene	13.65	180	575	0.252	ug/l	82
96) 1,2,3-Trichlorobenzene	14.02	180	480	0.207	ug/l	93

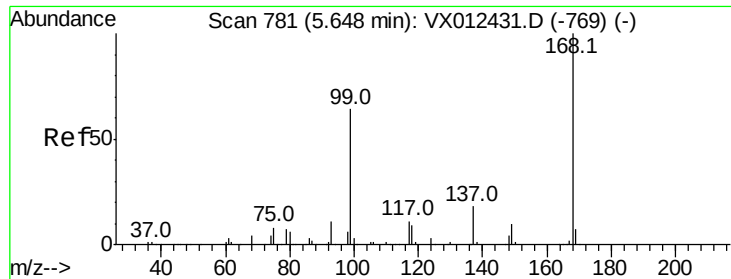
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091819\
Data File : VX012463.D
Acq On : 18 Sep 2019 11:08
Operator : JC/SP
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Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0918WBL01

Quant Time: Sep 19 05:59:10 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 17 15:27:10 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX012463.D

Acq: 18 Sep 2019 11:08

Instrument :

MSVOA_X

ClientSampleId :

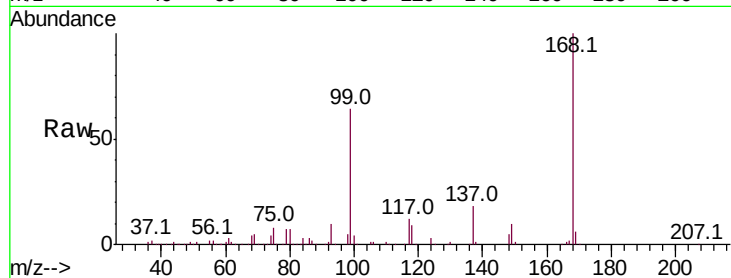
VX0918WBL01

Tot Ion:168 Resp: 200290

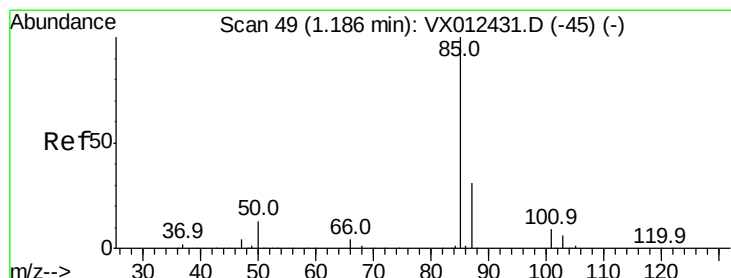
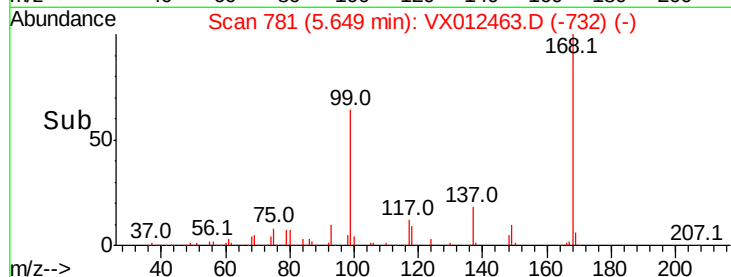
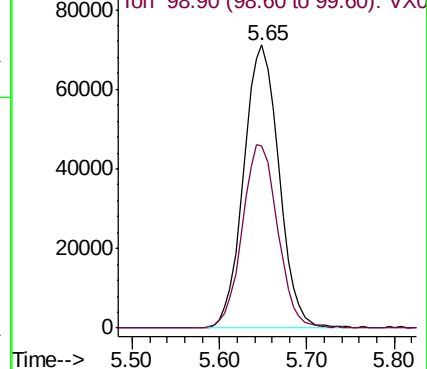
Ion Ratio Lower Upper

168 100

99 64.3 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V



#2

Dichlorodifluoromethane

Concen: 0.408 ug/l

RT: 1.18 min Scan# 48

Delta R.T. -0.01 min

Lab File: VX012463.D

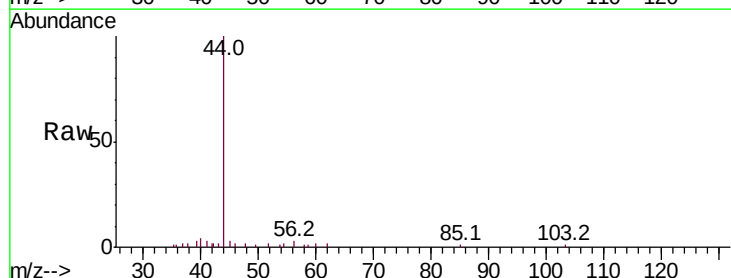
Acq: 18 Sep 2019 11:08

Tgt Ion: 85 Resp: 23

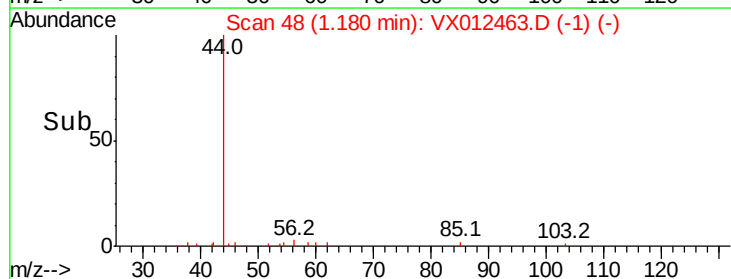
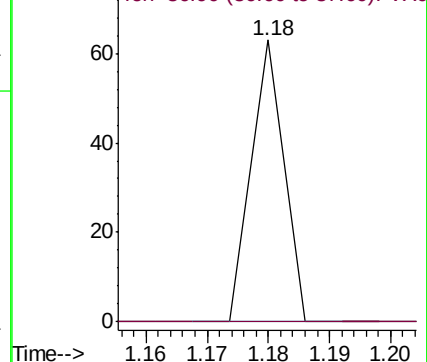
Ion Ratio Lower Upper

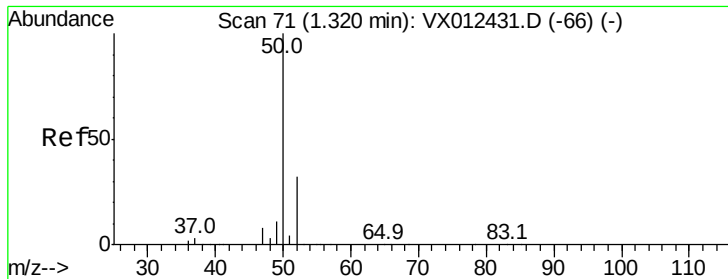
85 100

87 0.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0





#3

Chloromethane

Concen: 0.298 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012463.D

Acq: 18 Sep 2019 11:08

Instrument :

MSVOA_X

ClientSampleId :

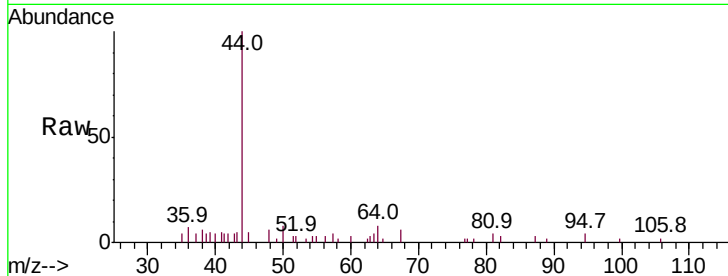
VX0918WBL01

Tot Ion: 50 Resp: 328

Ion Ratio Lower Upper

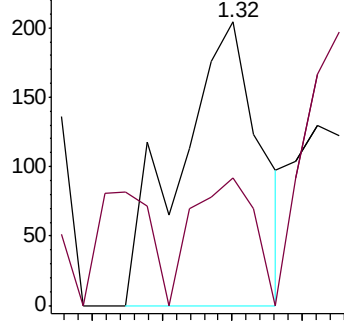
50 100

52 4.9 25.7 38.5#

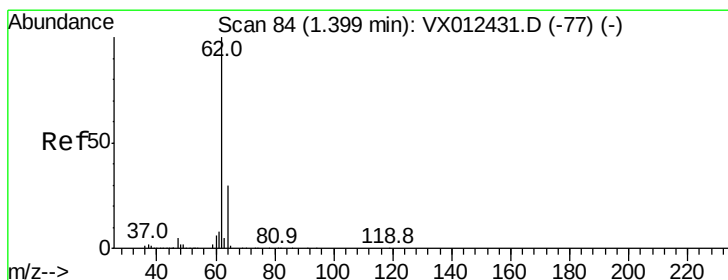
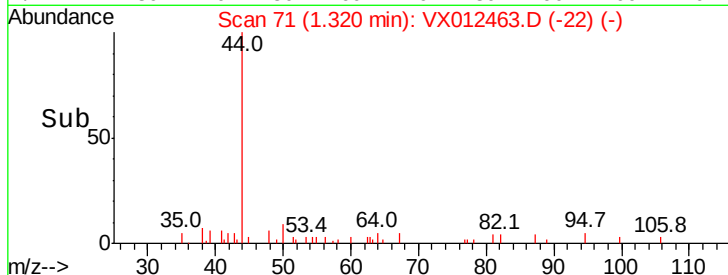


Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



Time-->



#4

Vinyl Chloride

Concen: 0.215 ug/l

RT: 1.39 min Scan# 83

Delta R.T. -0.01 min

Lab File: VX012463.D

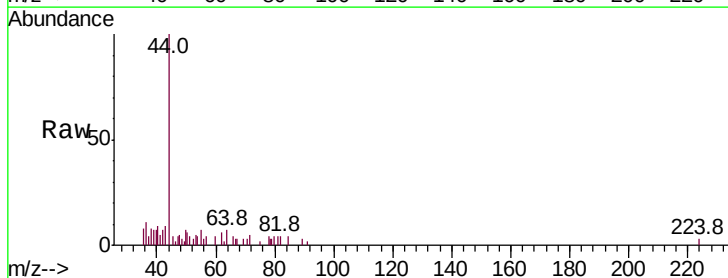
Acq: 18 Sep 2019 11:08

Tgt Ion: 62 Resp: 256

Ion Ratio Lower Upper

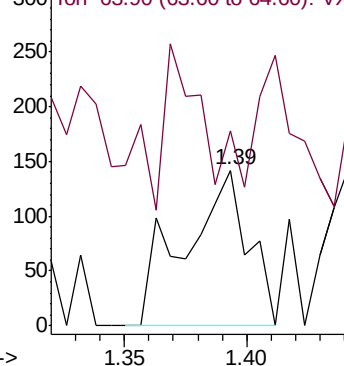
62 100

64 16.5 24.2 36.2#

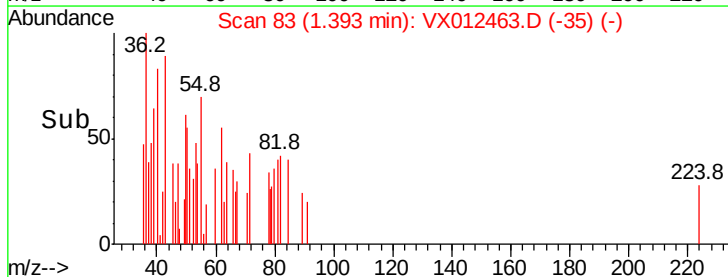


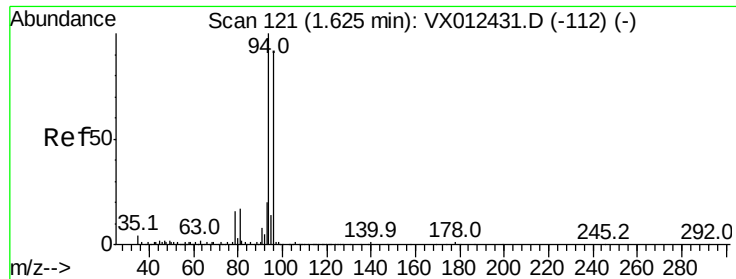
Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



Time-->





#5

Bromomethane

Concen: 0.329 ug/l

RT: 1.62 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX012463.D

Acq: 18 Sep 2019 11:08

Instrument :

MSVOA_X

ClientSampled :

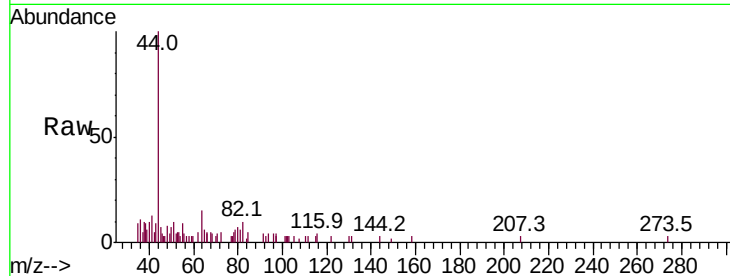
VX0918WBL01

Tot Ion: 94 Resp: 154

Ion Ratio Lower Upper

94 100

96 19.4 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

300

250

200

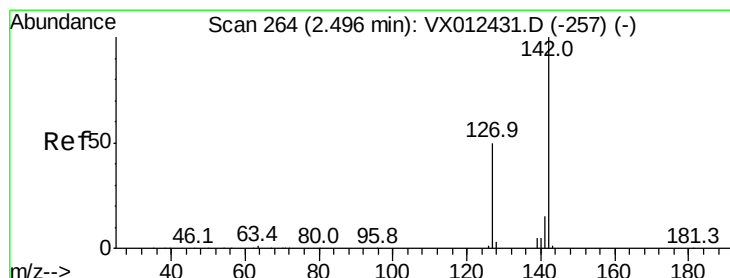
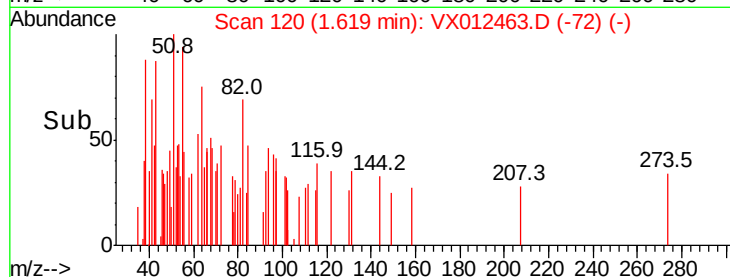
150

100

50

0

Time--> 1.58 1.60 1.62



#10

Methyl Iodide

Concen: 4.854 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX012463.D

Acq: 18 Sep 2019 11:08

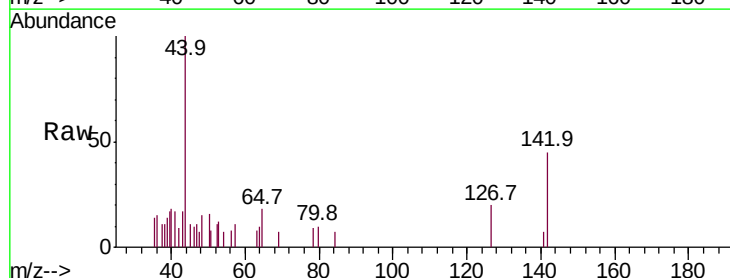
Tgt Ion: 142 Resp: 612

Ion Ratio Lower Upper

142 100

127 45.4 40.8 61.2

141 6.5 12.1 18.1#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

400

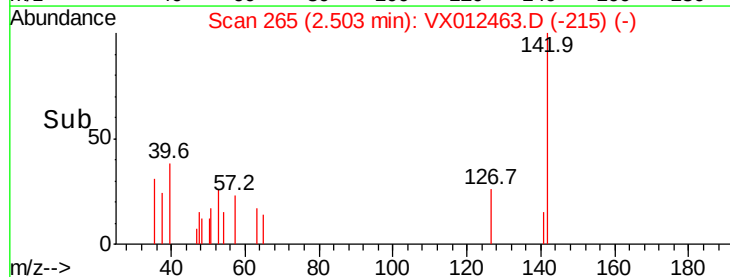
300

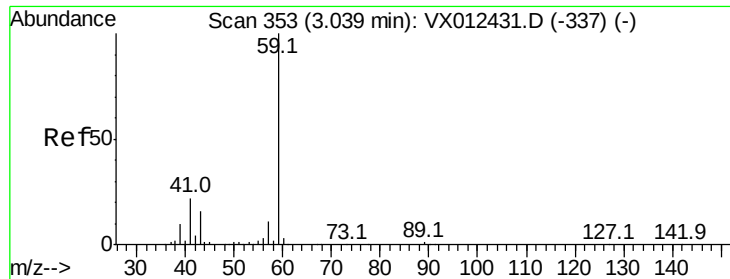
200

100

0

Time--> 2.45 2.50 2.55



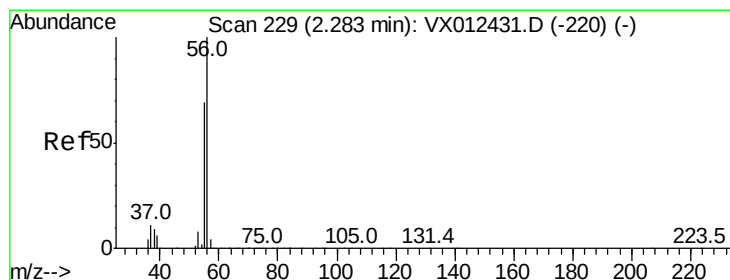
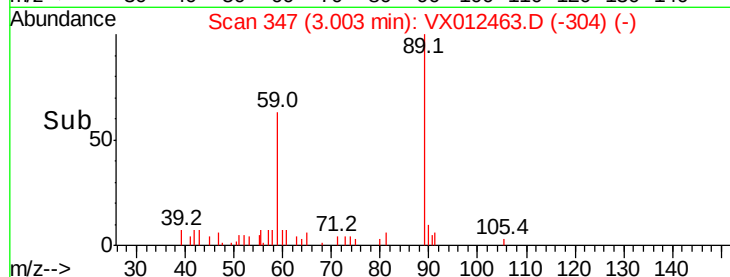
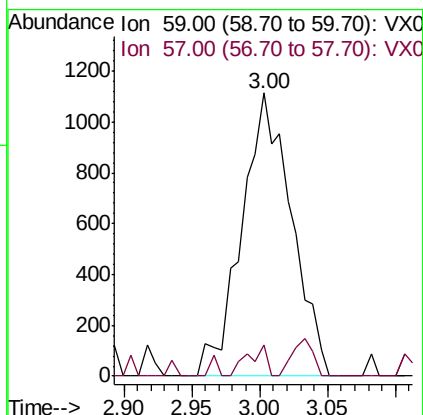
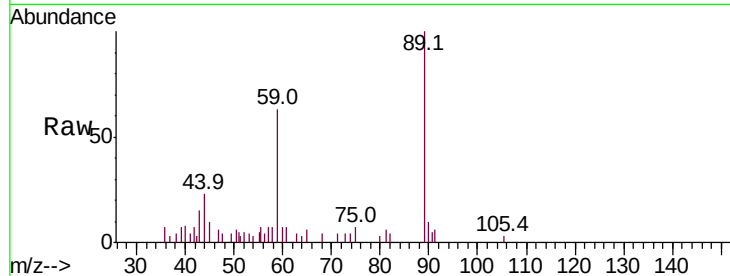


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 3.00 min Scan# 347
 Delta R.T. -0.04 min
 Lab File: VX012463.D
 Acq: 18 Sep 2019 11:08

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0918WBL01

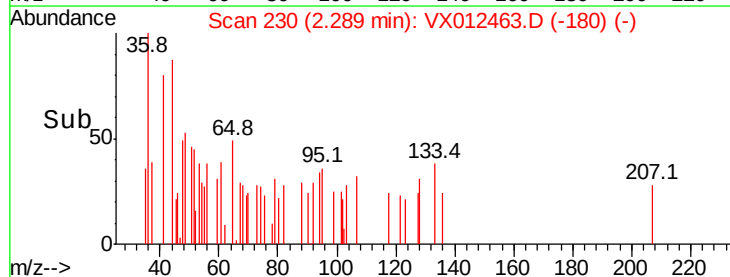
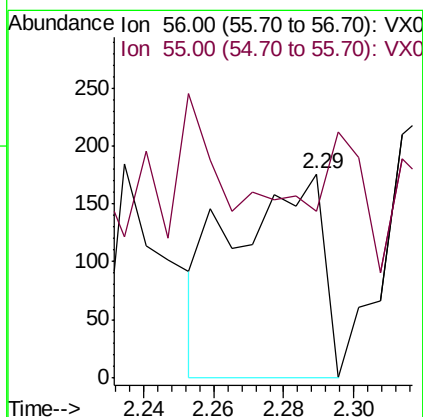
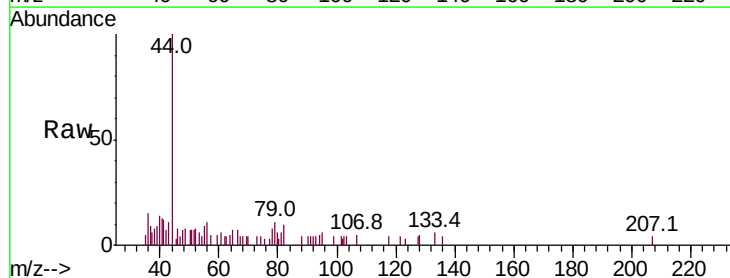
Tot Ion: 59 Resp: 2850
 Ion Ratio Lower Upper
 59 100
 57 4.2 8.3 12.5#

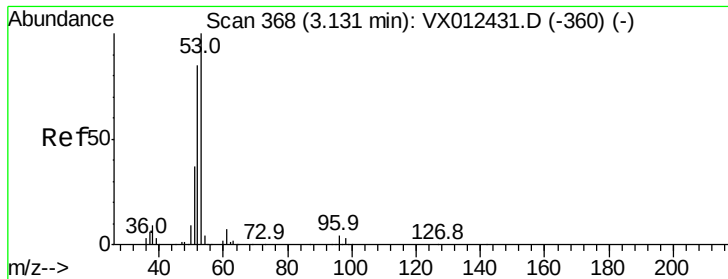


#13

Acrolein
 Concen: Below Cal
 RT: 2.29 min Scan# 230
 Delta R.T. 0.01 min
 Lab File: VX012463.D
 Acq: 18 Sep 2019 11:08

Tgt Ion: 56 Resp: 312
 Ion Ratio Lower Upper
 56 100
 55 26.0 55.8 83.8#





#15

Acrylonitrile

Concen: 0.224 ug/l

RT: 3.13 min Scan# 368

Delta R.T. 0.00 min

Lab File: VX012463.D

Acq: 18 Sep 2019 11:08

Instrument :

MSVOA_X

ClientSampled :

VX0918WBL01

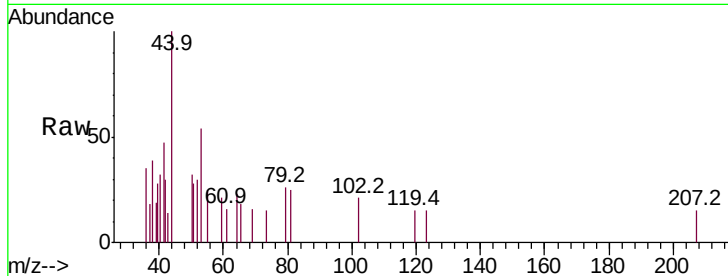
Tot Ion: 53 Resp: 279

Ion Ratio Lower Upper

53 100

52 0.0 67.0 100.4#

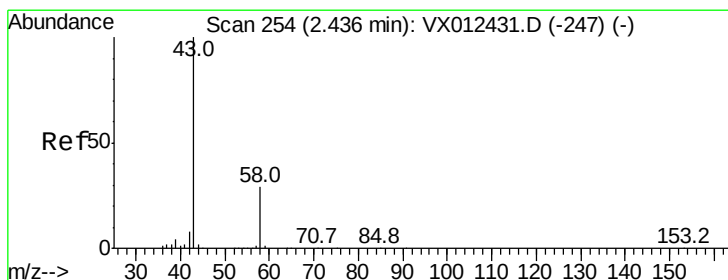
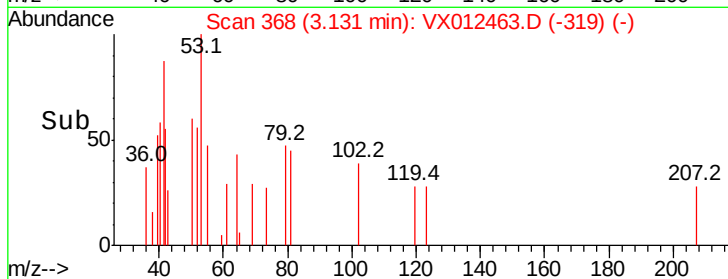
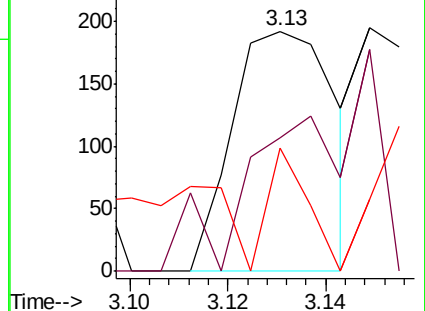
51 19.7 29.6 44.4#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: Below Cal

RT: 2.42 min Scan# 252

Delta R.T. -0.01 min

Lab File: VX012463.D

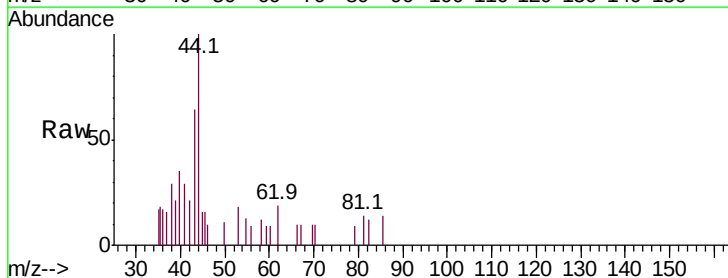
Acq: 18 Sep 2019 11:08

Tgt Ion: 43 Resp: 559

Ion Ratio Lower Upper

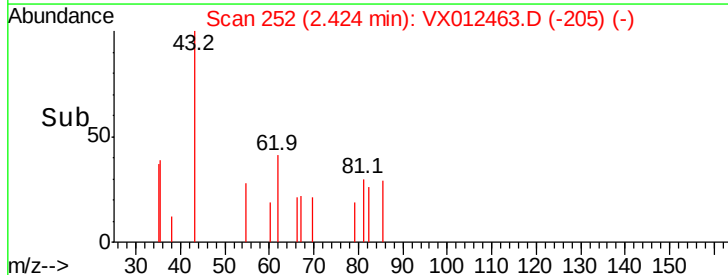
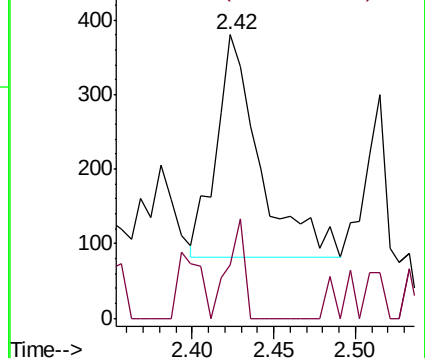
43 100

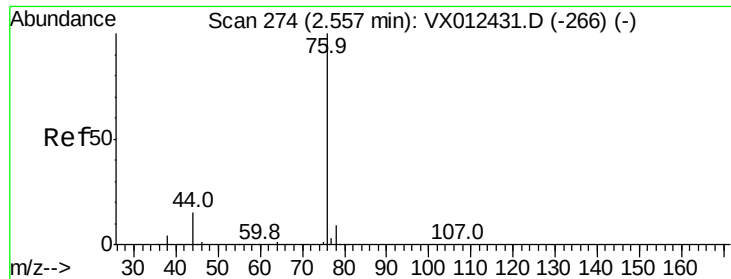
58 24.1 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 2.112 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.00 min

Lab File: VX012463.D

Acq: 18 Sep 2019 11:08

Instrument :

MSVOA_X

ClientSampleId :

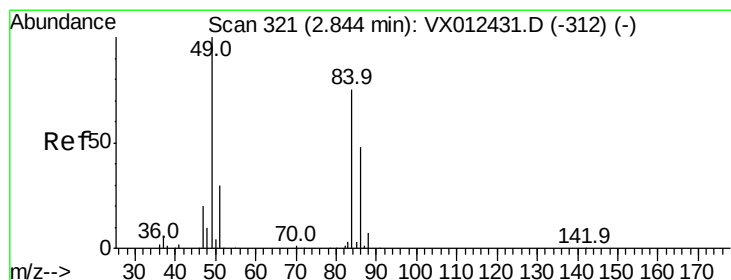
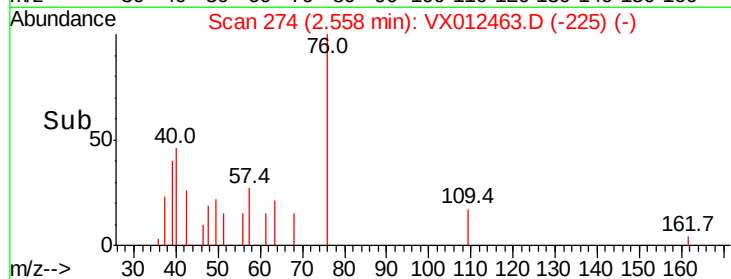
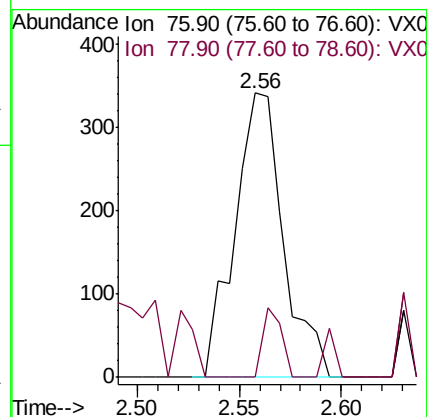
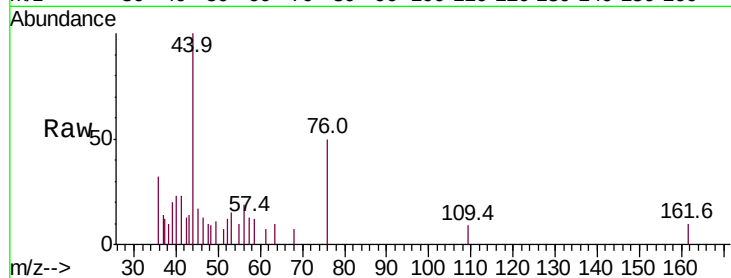
VX0918WBL01

Tot Ion: 76 Resp: 565

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



#20

Methylene Chloride

Concen: 0.250 ug/l

RT: 2.84 min Scan# 320

Delta R.T. -0.01 min

Lab File: VX012463.D

Acq: 18 Sep 2019 11:08

Tgt Ion: 84 Resp: 435

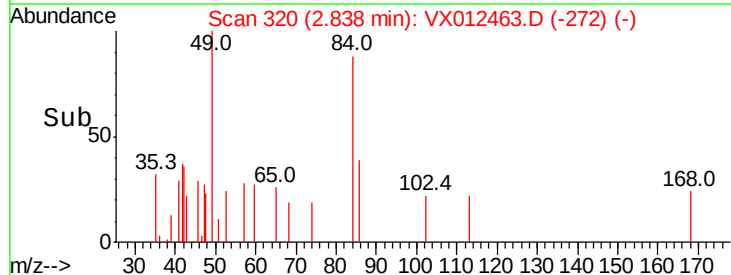
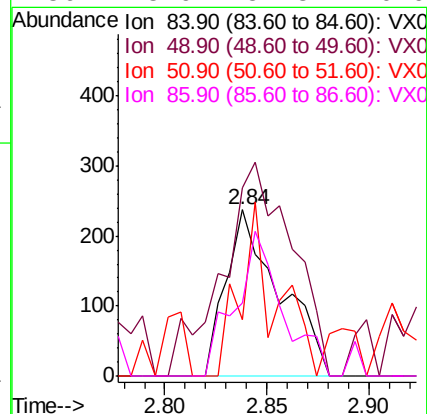
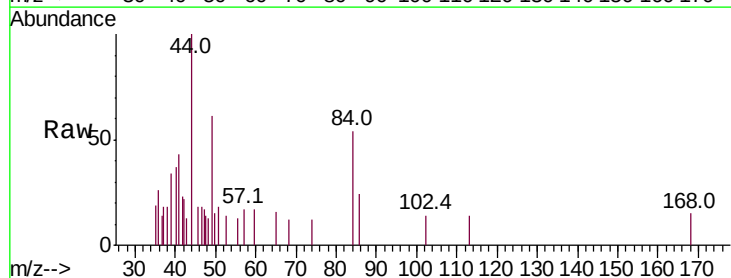
Ion Ratio Lower Upper

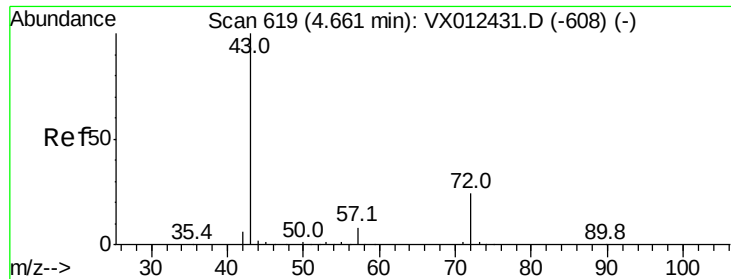
84 100

49 113.1 106.8 160.2

51 34.2 32.3 48.5

86 43.9 51.3 76.9#





#25

2-Butanone

Concen: 0.249 ug/l

RT: 4.66 min Scan# 619

Delta R.T. 0.00 min

Lab File: VX012463.D

Acq: 18 Sep 2019 11:08

Instrument :

MSVOA_X

ClientSampleId :

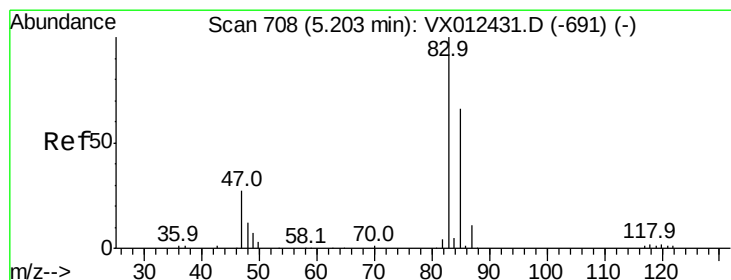
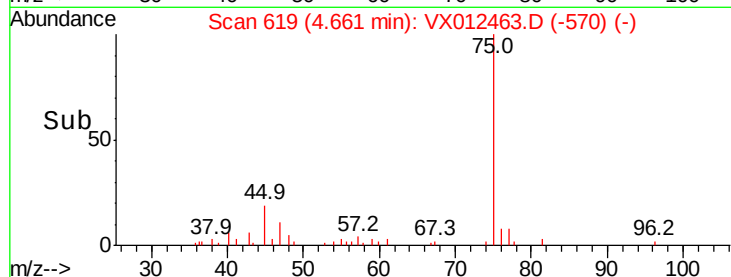
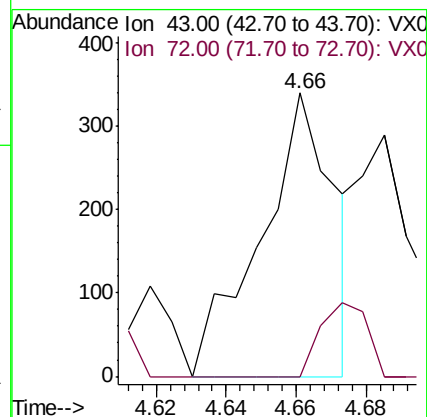
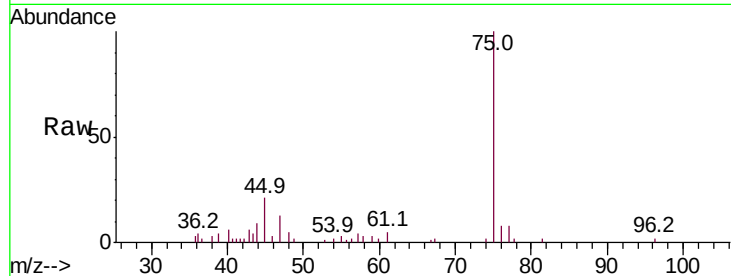
VX0918WBL01

Tot Ion: 43 Resp: 495

Ion Ratio Lower Upper

43 100

72 0.0 19.2 28.8#



#30

Chloroform

Concen: 0.214 ug/l

RT: 5.19 min Scan# 706

Delta R.T. -0.01 min

Lab File: VX012463.D

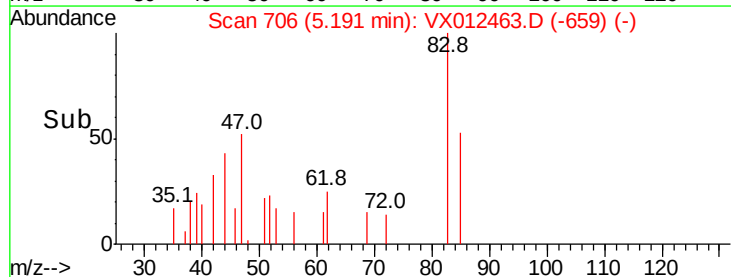
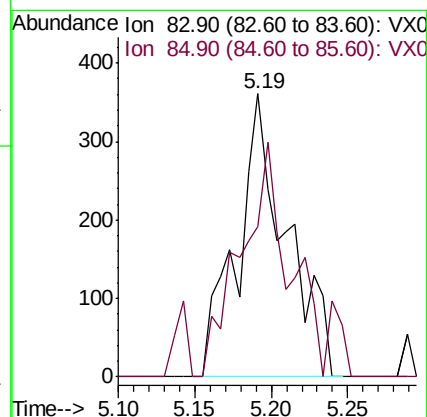
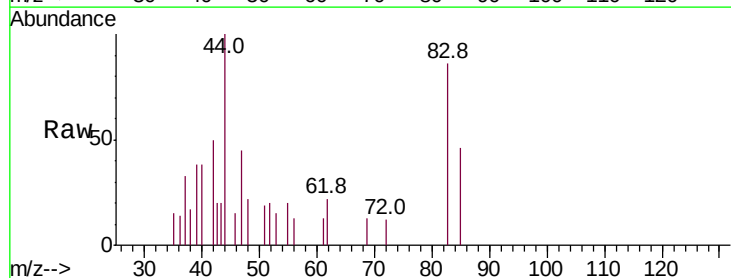
Acq: 18 Sep 2019 11:08

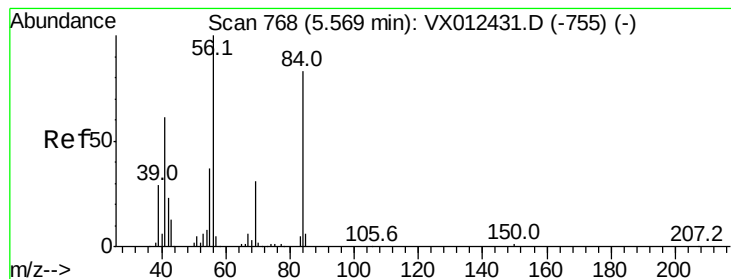
Tgt Ion: 83 Resp: 809

Ion Ratio Lower Upper

83 100

85 53.2 53.0 79.4





#31

Cyclohexane

Concen: 2.464 ug/l

RT: 5.64 min Scan# 780

Delta R.T. 0.07 min

Lab File: VX012463.D

Acq: 18 Sep 2019 11:08

Instrument :

MSVOA_X

ClientSampleId :

VX0918WBL01

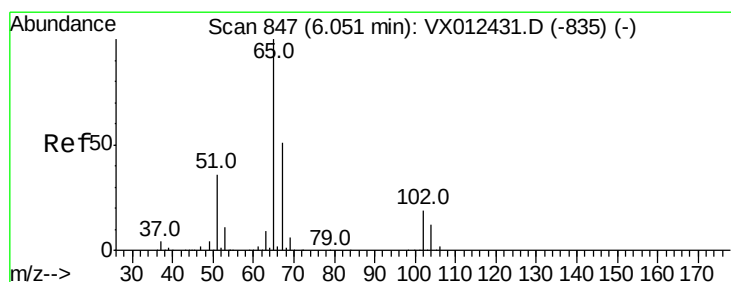
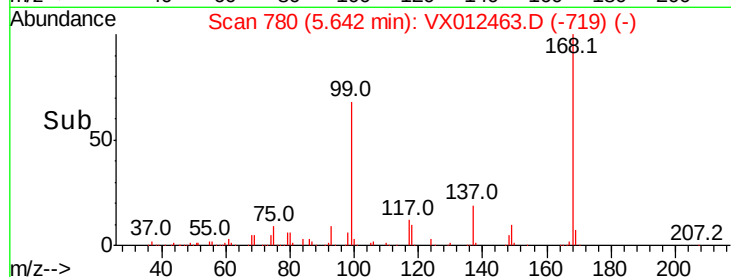
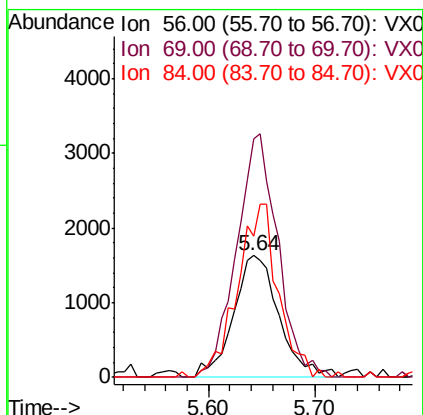
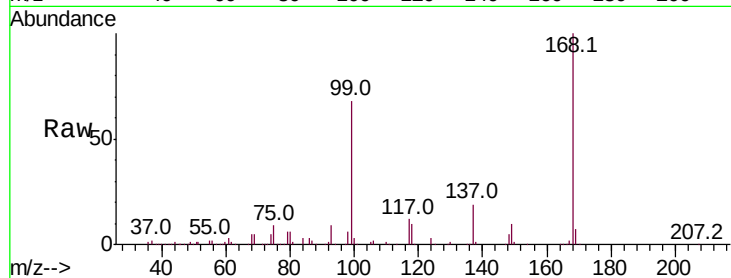
Tot Ion: 56 Resp: 4885

Ion Ratio Lower Upper

56 100

69 196.6 25.0 37.6#

84 115.8 66.4 99.6#



#33

1,2-Dichloroethane-d4

Concen: 47.026 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012463.D

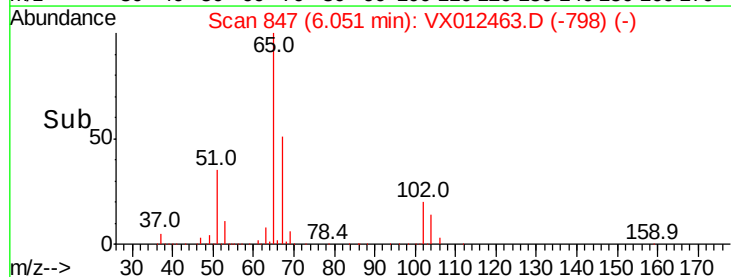
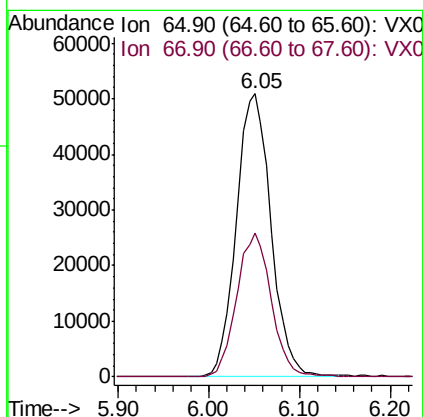
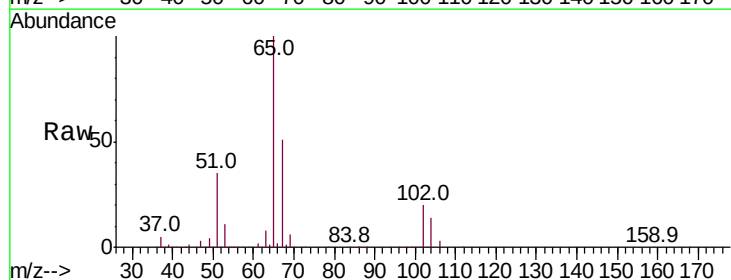
Acq: 18 Sep 2019 11:08

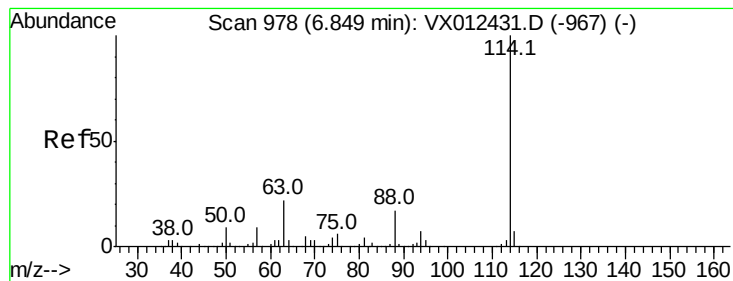
Tgt Ion: 65 Resp: 134991

Ion Ratio Lower Upper

65 100

67 50.7 0.0 101.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX012463.D

Acq: 18 Sep 2019 11:08

Instrument :

MSVOA_X

ClientSampleId :

VX0918WBL01

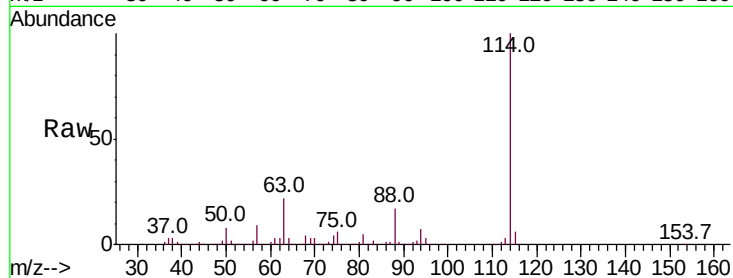
Tot Ion:114 Resp: 320187

Ion Ratio Lower Upper

114 100

63 22.0 0.0 43.2

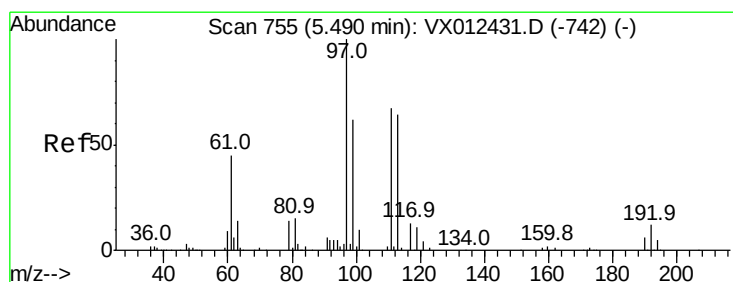
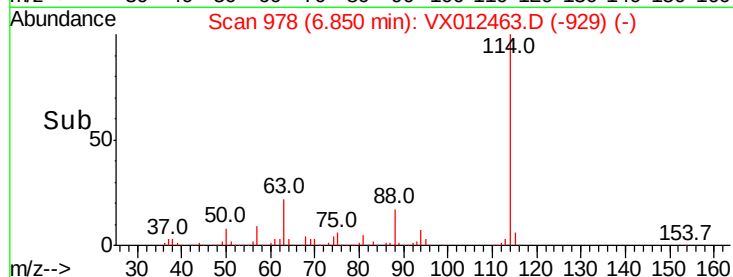
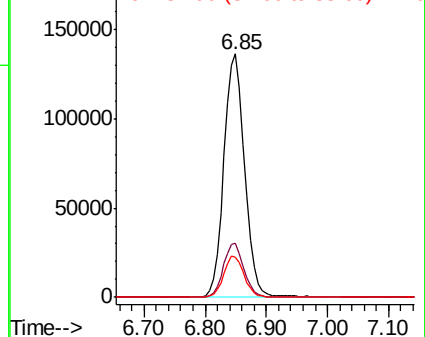
88 16.7 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.509 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX012463.D

Acq: 18 Sep 2019 11:08

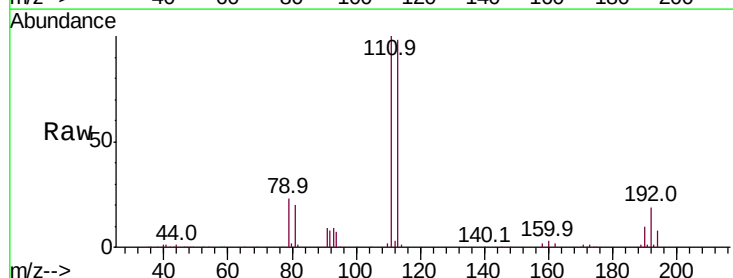
Tgt Ion:113 Resp: 95947

Ion Ratio Lower Upper

113 100

111 103.0 83.4 125.2

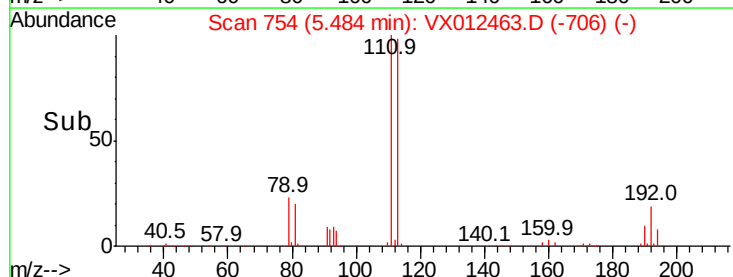
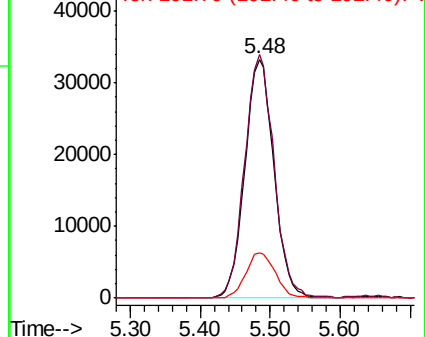
192 19.2 14.4 21.6

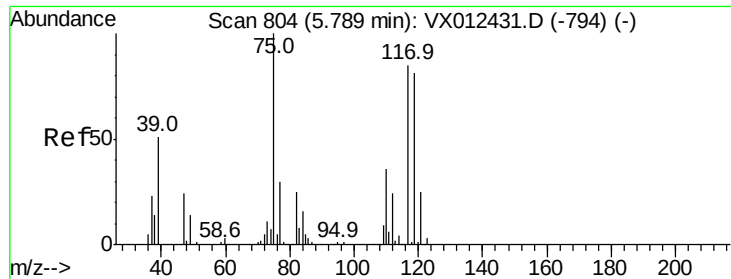


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 8.776 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012463.D

Acq: 18 Sep 2019 11:08

Instrument :

MSVOA_X

ClientSampleId :

VX0918WBL01

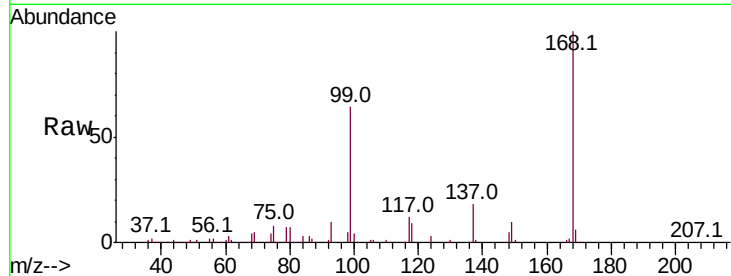
Tot Ion: 75 Resp: 17078

Ion Ratio Lower Upper

75 100

110 10.5 16.7 50.0#

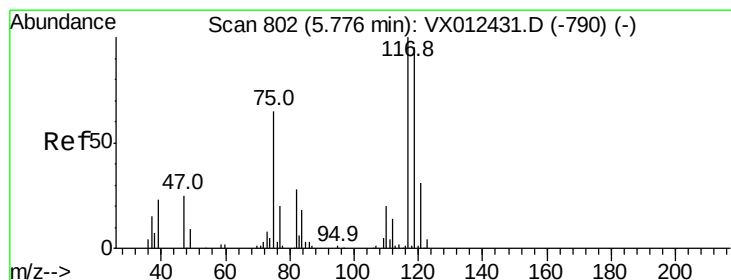
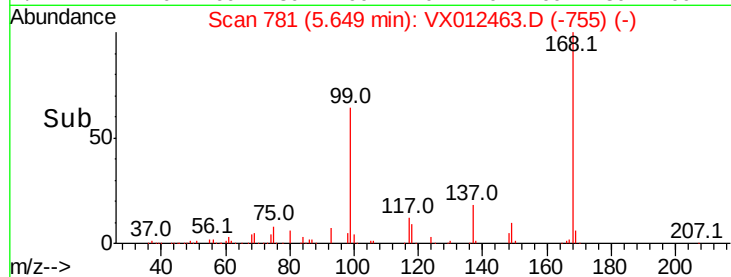
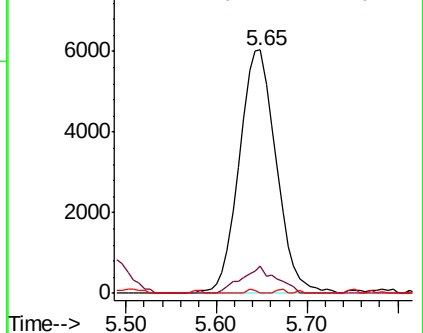
77 0.4 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 9.211 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX012463.D

Acq: 18 Sep 2019 11:08

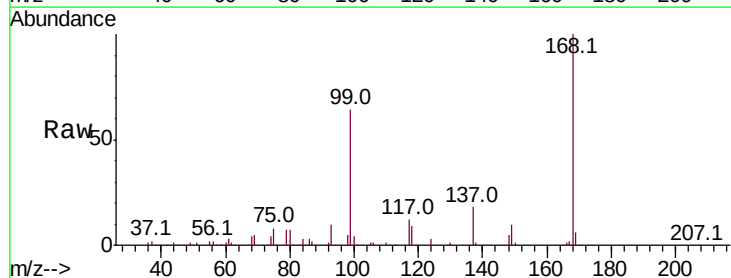
Tgt Ion: 117 Resp: 22292

Ion Ratio Lower Upper

117 100

119 3.8 75.7 113.5#

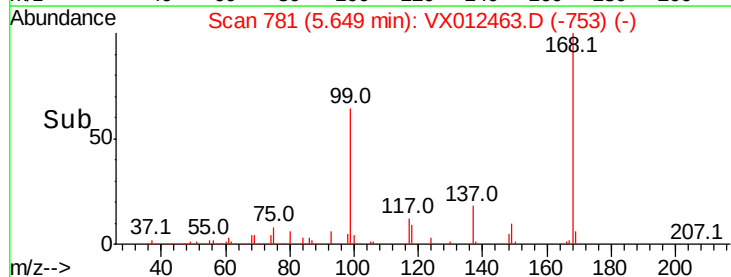
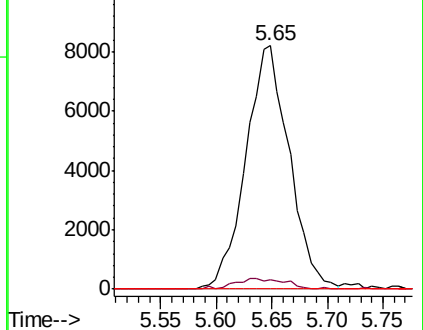
121 0.0 24.2 36.4#

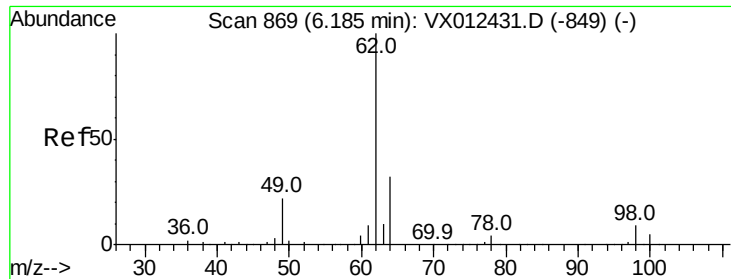


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

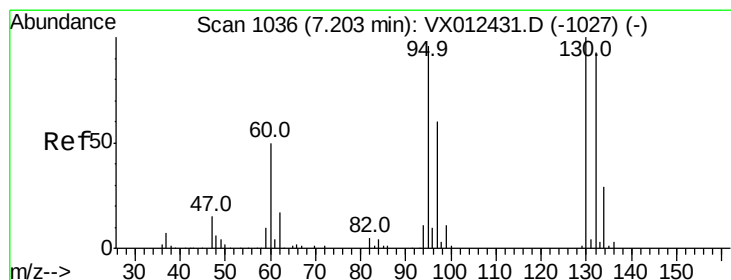
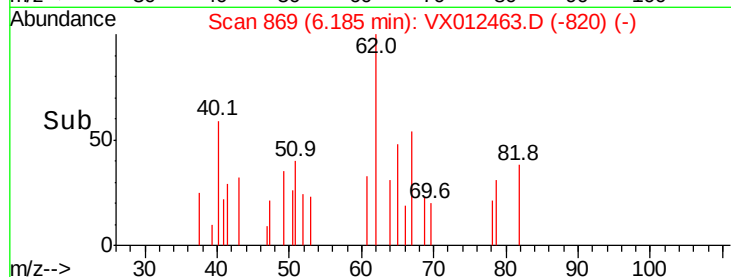
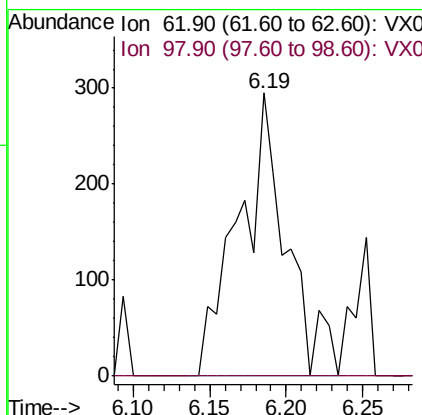
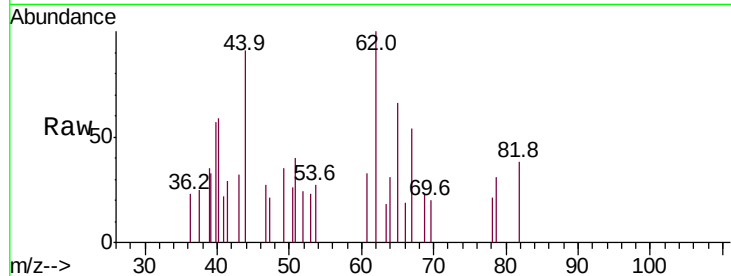




#42
 1,2-Dichloroethane
 Concen: 0.223 ug/l
 RT: 6.19 min Scan# 869
 Delta R.T. 0.00 min
 Lab File: VX012463.D
 Acq: 18 Sep 2019 11:08

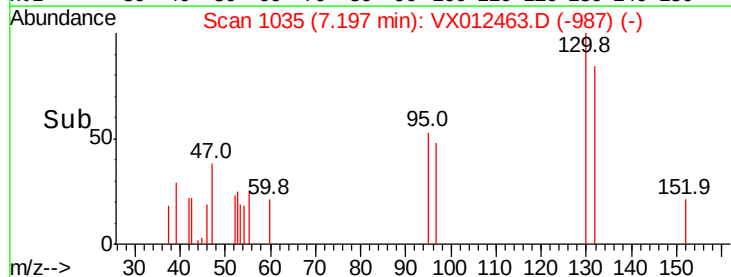
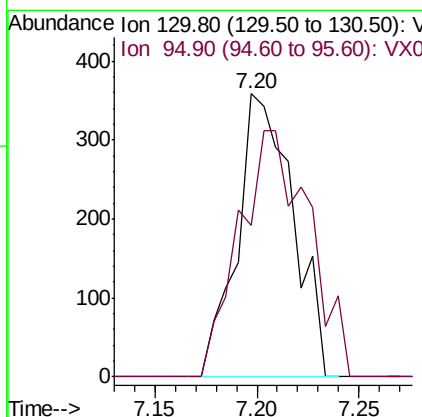
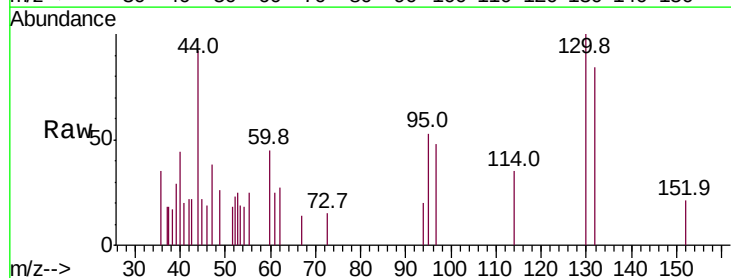
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0918WBL01

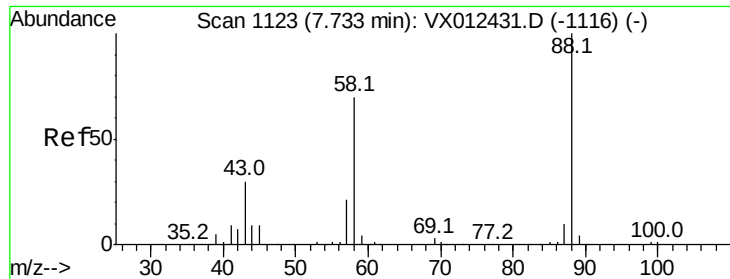
Tot Ion: 62 Resp: 640
 Ion Ratio Lower Upper
 62 100
 98 0.0 0.0 17.8



#44
 Trichloroethene
 Concen: 0.417 ug/l
 RT: 7.20 min Scan# 1035
 Delta R.T. -0.01 min
 Lab File: VX012463.D
 Acq: 18 Sep 2019 11:08

Tgt Ion:130 Resp: 679
 Ion Ratio Lower Upper
 130 100
 95 53.4 0.0 193.0

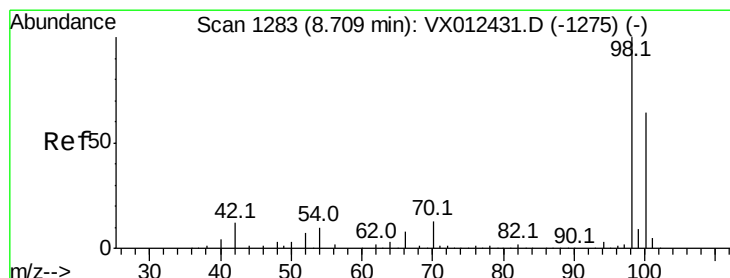
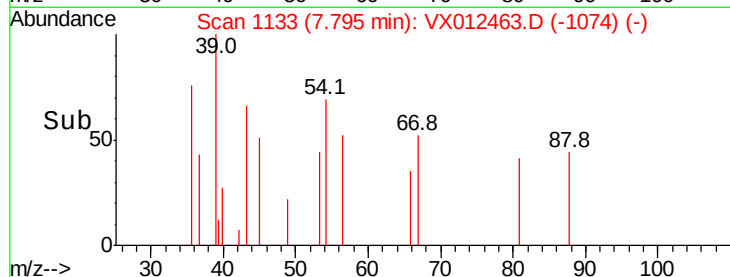
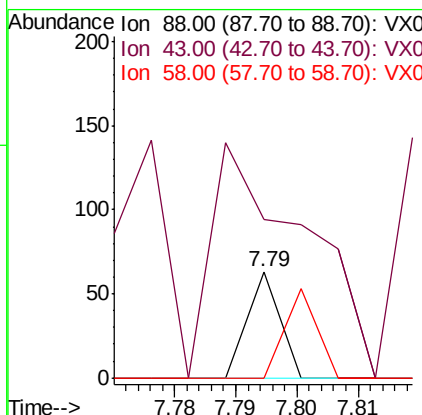
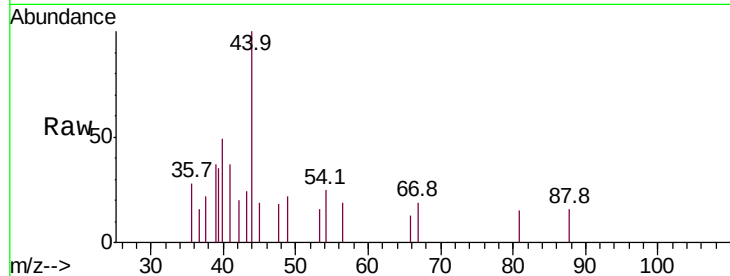




#49
1,4-Dioxane
Concen: 0.374 ug/l
RT: 7.79 min Scan# 1133
Delta R.T. 0.06 min
Lab File: VX012463.D
Acq: 18 Sep 2019 11:08

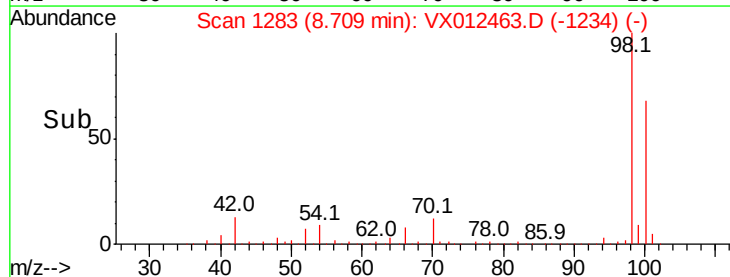
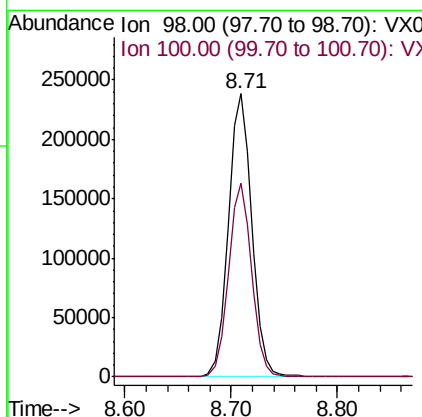
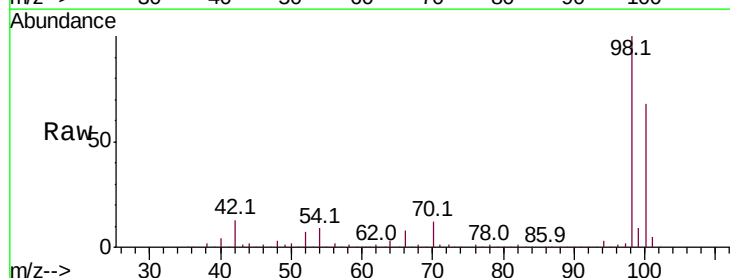
Instrument :
MSVOA_X
ClientSampleId :
VX0918WBL01

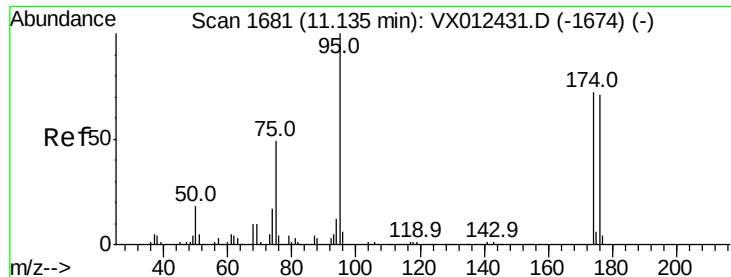
Tot Ion: 88 Resp: 23
Ion Ratio Lower Upper
88 100
43 639.1 29.4 44.0#
58 82.6 57.5 86.3



#50
Toluene-d8
Concen: 51.349 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012463.D
Acq: 18 Sep 2019 11:08

Tgt Ion: 98 Resp: 368341
Ion Ratio Lower Upper
98 100
100 67.7 53.4 80.2





#62

4-Bromofluorobenzene

Concen: 45.552 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX012463.D

Acq: 18 Sep 2019 11:08

Instrument :

MSVOA_X

ClientSampled :

VX0918WBL01

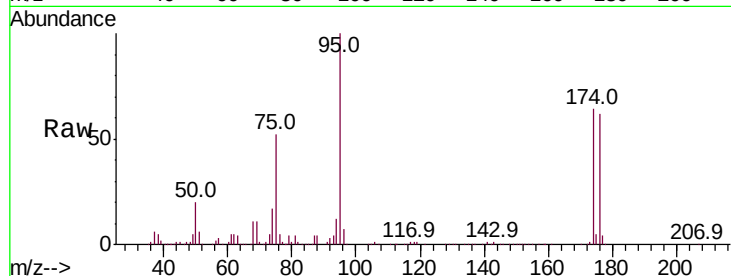
Tot Ion: 95 Resp: 135671

Ion Ratio Lower Upper

95 100

174 71.0 0.0 140.0

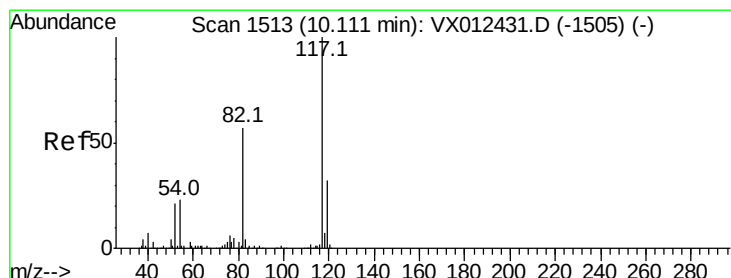
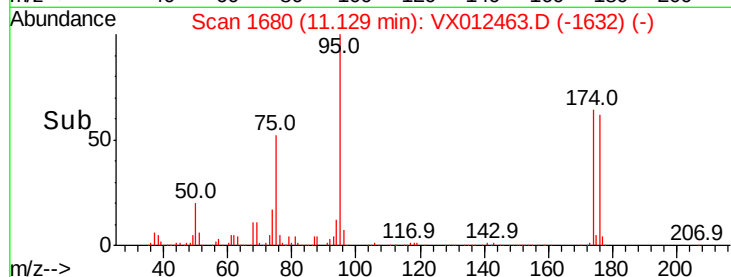
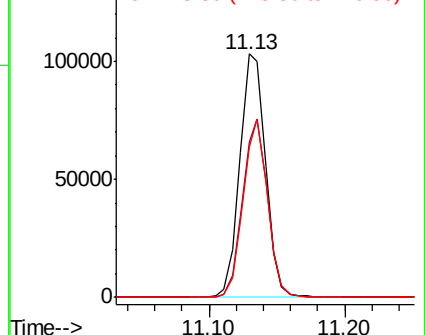
176 69.5 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1512

Delta R.T. -0.01 min

Lab File: VX012463.D

Acq: 18 Sep 2019 11:08

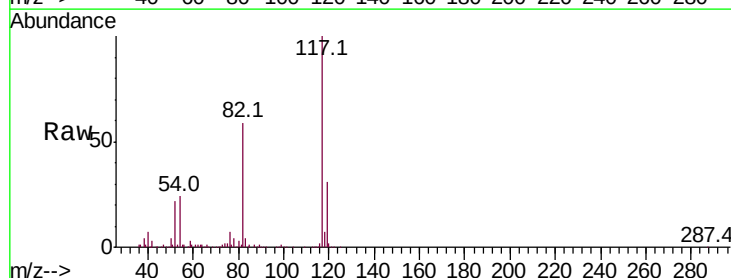
Tgt Ion: 117 Resp: 273240

Ion Ratio Lower Upper

117 100

82 58.9 45.9 68.9

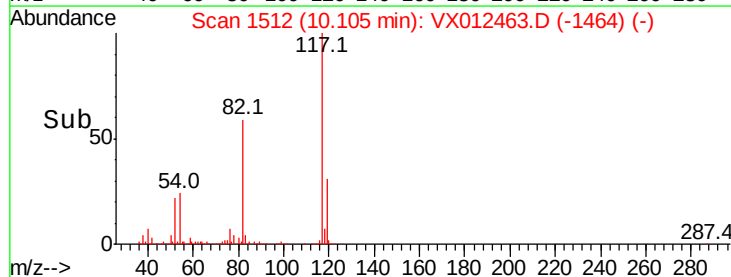
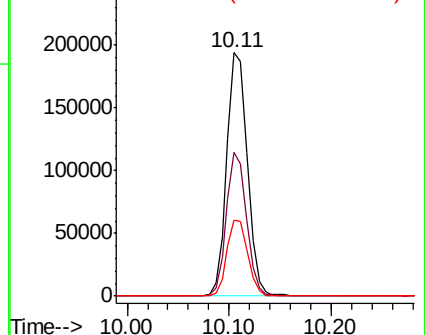
119 31.2 25.3 37.9

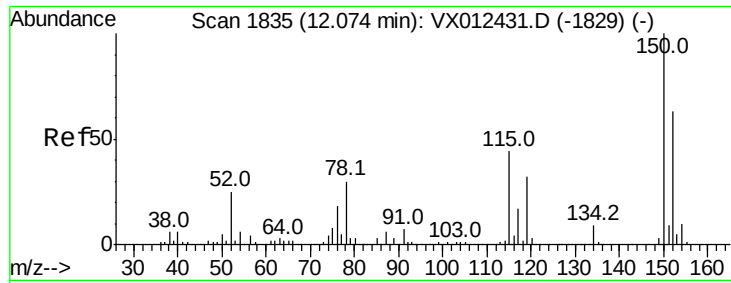


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012463.D

Acq: 18 Sep 2019 11:08

Instrument :

MSVOA_X

ClientSampleId :

VX0918WBL01

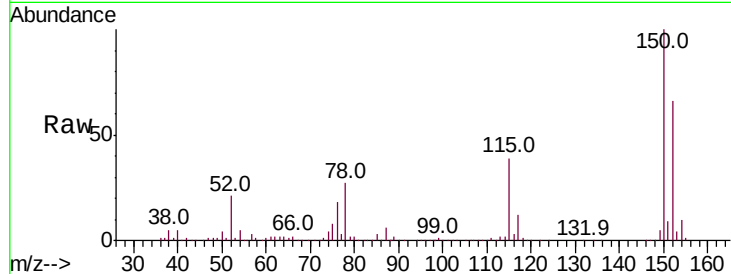
Tot Ion:152 Resp: 117557

Ion Ratio Lower Upper

152 100

115 63.0 44.1 132.3

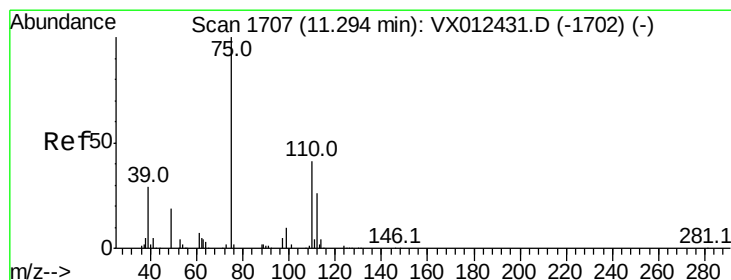
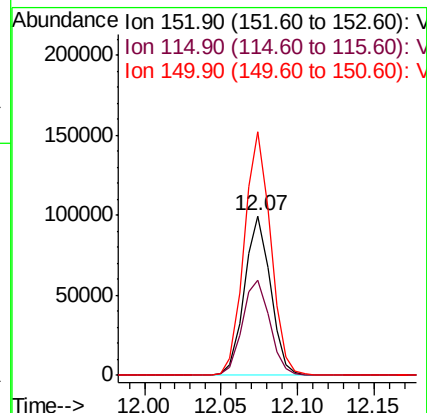
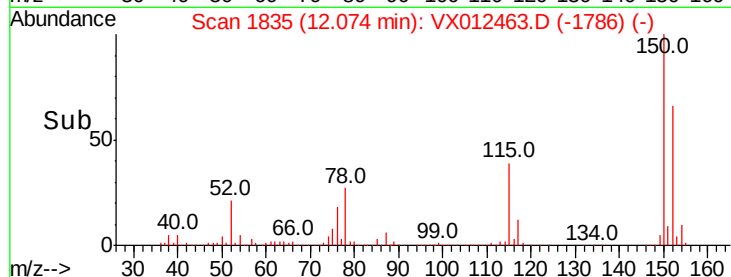
150 154.9 0.0 343.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.492 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012463.D

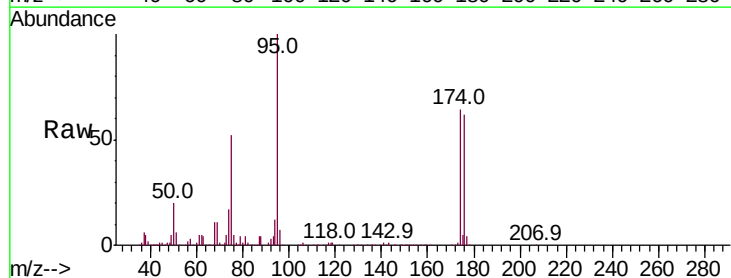
Acq: 18 Sep 2019 11:08

Tgt Ion: 75 Resp: 71537

Ion Ratio Lower Upper

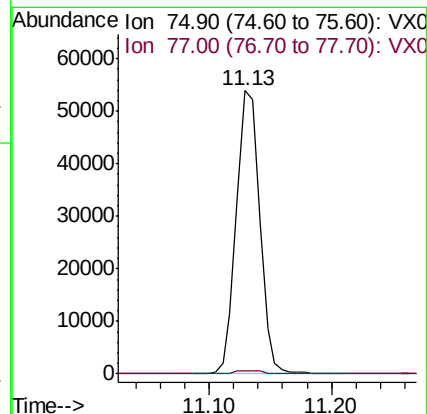
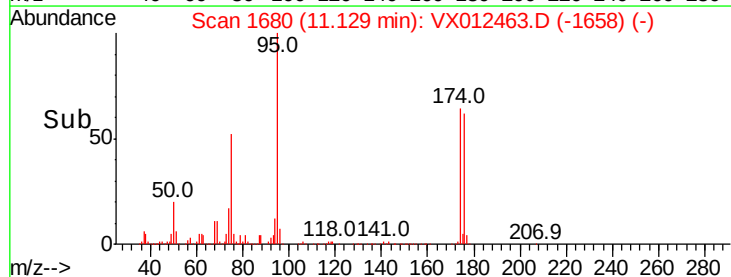
75 100

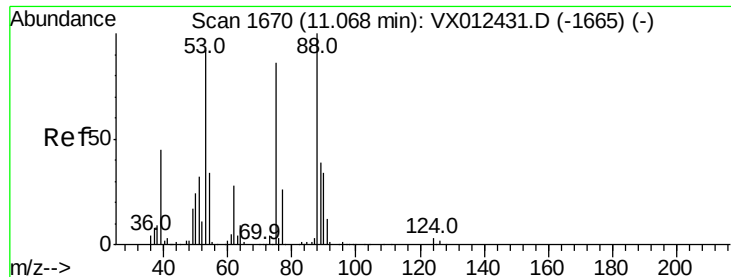
77 1.5 19.7 59.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 71.322 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012463.D

Acq: 18 Sep 2019 11:08

Instrument :

MSVOA_X

ClientSampleId :

VX0918WBL01

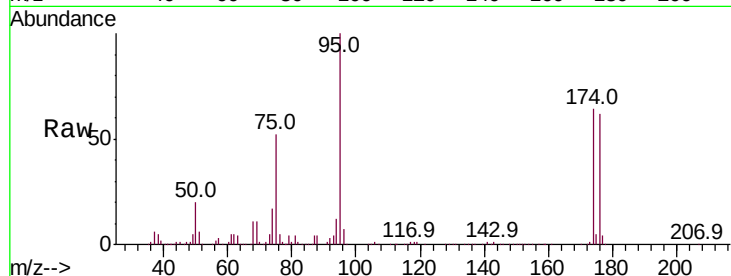
Tot Ion: 75 Resp: 71537

Ion Ratio Lower Upper

75 100

53 0.2 83.6 125.4#

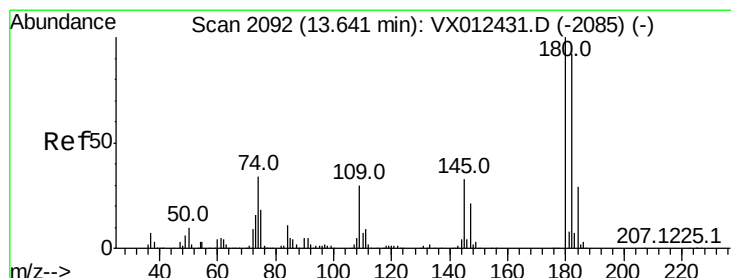
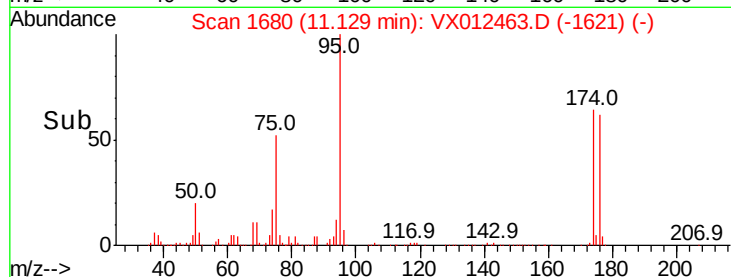
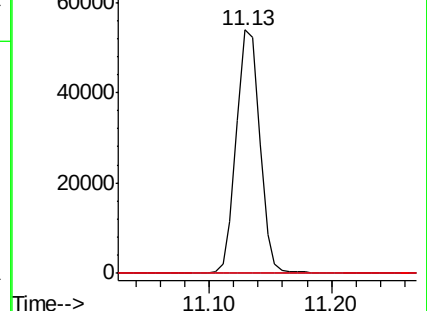
89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#93

1,2,4-Trichlorobenzene

Concen: 0.252 ug/l

RT: 13.65 min Scan# 2093

Delta R.T. 0.01 min

Lab File: VX012463.D

Acq: 18 Sep 2019 11:08

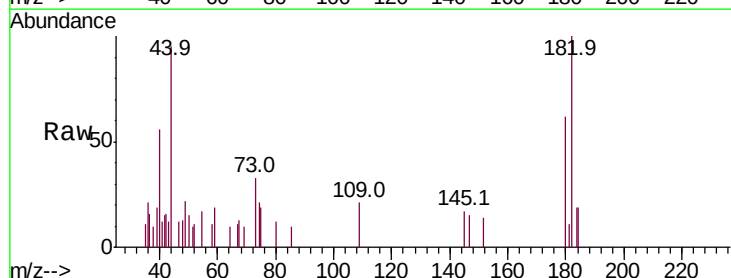
Tgt Ion:180 Resp: 575

Ion Ratio Lower Upper

180 100

182 112.3 47.0 141.0

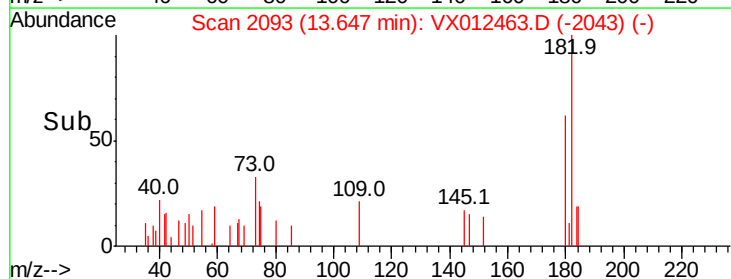
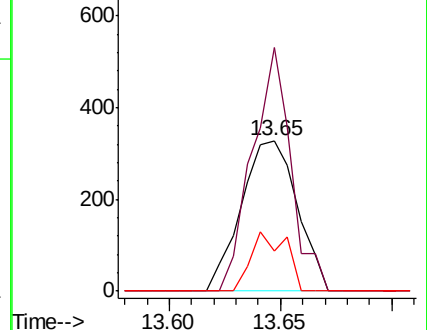
145 24.9 16.8 50.4

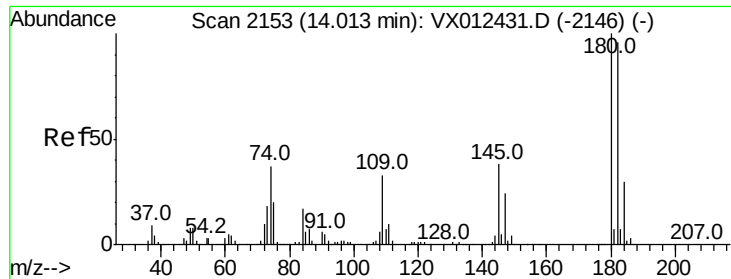


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.207 ug/l
 RT: 14.02 min Scan# 2154
 Delta R.T. 0.01 min
 Lab File: VX012463.D
 Acq: 18 Sep 2019 11:08

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0918WBL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	89.8	47.1	141.3
145	27.1	18.0	54.0

